(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 10 June 2004 (10.06.2004)

PCT

(10) International Publication Number WO 2004/047641 A3

(51) International Patent Classification7: A61M 1/02

A61B 5/15,

(21) International Application Number:

PCT/CA2003/001838

(22) International Filing Date:

26 November 2003 (26.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

26 November 2002 (26.11.2002) US 60/428,942 60/464,659 23 April 2003 (23.04.2003) US 27 June 2003 (27.06.2003) 60/482,725

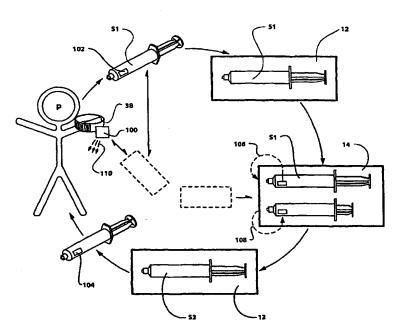
- (71) Applicant (for all designated States except US): VASO-GEN IRELAND LIMITED [IE/IE]; Shannon Airport House, Shannon, Co. Clare (IE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): LIM, Bernard,

C., B. [MY/CA]; 2336 Valley Forest Way, Oakville, Ontario L6H 6W8 (CA). WORONA, Taras [CA/CA]; 6 Sapling Court, Etobicoke, Ontario M9C 1K9 (CA). KANBERGS, Davis, A., R. [CA/CA]; 643 Clover Park Crescent, Milton, Ontario L9T 4T7 (CA). COSTA, Mark, Paul [CA/CA]: 1593 Dockray Drive, Milton, Ontario L9T 5M4 (CA). CHEN, Hao [CN/CA]; 2333 Truscott Drive, Apt. 906, Mississauga, Ontario L5J 4B7 (CA). ZHAO, Roy, T. [CA/CA]; 35 Elk Street, Brampton, Ontario L6R 1R9 (CA). KLEIN, Gabriele [CA/CA]; 5230 Glen Erin Drive, Townhouse 97, Mississauga, Ontario L5M 5Z7 (CA), MULLER, Kathleen [ZA/CA]; 5230 Glen Erin Drive, Unit 36, Mississauga, Ontario L5M 5Z7 (CA). MATSUURA, David, G. [US/US]; 859 Summersong Court, Encinitas, CA 92025 (US). SIMPSON, Philip, J. [US/US]; 3185 Pioneer Place, Escondido, CA 92025 (US). GILLESPIE, Walter, Dean [US/US]; 1327 Pacific Beach Dr., San Diego, CA 92109 (US). MITCHELL, John, Norris [GB/GB]; #4 Robinson Avenue, Goffs Oak, Hertfordshire EN7 5NX (GB).

(74) Agent: RIDOUT & MAYBEE LLP; One Queen Street East, Suite 2400, Toronto, Ontario M5C 3B1 (CA).

[Continued on next page]

(54) Title: MEDICAL TREATMENT CONTROL SYSTEM



(57) Abstract: A device (12) for controlling the collection and delivery of materials to a patient, the device has a dispenser-engaging portion (20), the dispenser-engaging portion (20) being operable in a release position to receive a materials dispenser (51, 52) when the dispenser is in a materials-containing configuration, the dispenser-engaging portion (20) being operable in a lock condition for locking the dispenser (51, 52) therewith, and access control means for controlling the release and lock positions according to a material transaction condition.

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- (88) Date of publication of the international search report: 2 September 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

ternational Application No PCT/CA 03/01838

CLASSIFICATION OF SUBJECT MATTER
C 7 A61B5/15 A61N A61M1/02 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61B A61M G07C Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronis data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Category ⁴ Citation of document, with indication, where appropriate, of the relevant passages WO 02/074365 A (DAYMAN JEFFREY GEORGE 1-31, 85-89. :WORONA TARAS (CA): MOORE PAUL GEORGE 91-99 ANDREW) 26 September 2002 (2002-09-26) page 5, line 18 -page 10, line 15 32-68,Α 100 Α WO 01/19318 A (CHONG CARLTON ; DAYMAN JEFF 1 - 31(CA); NEWMAN DUNCAN (CA); PORTER THOMAS) 85-89, 91-99 22 March 2001 (2001-03-22) cited in the application page 2, last paragraph -page 5, paragraph 32-68. 100 WO 02/074362 A (WORONA TARAS ; MOORE PAUL 1-100 Α GEORGE ANDREW (CA); NEWMAN DUNCAN ARTHUR) 26 September 2002 (2002-09-26) the whole document Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the International "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. document referring to an oral disclosure, use, exhibition or other means document published prior to the International filing date but later than the priority date claimed *&* document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 17. 06. 2004 2 June 2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Hooper, M Fax: (+31-70) 340-3016

INTERNATIONAL SEARCH REPORT

International application No. PCT/CA 03/01838

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: 69-84, 90 because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this International application, as follows:
see additional sheet
1. As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-31, 85-89, 91-99

A device for controlling the delivery and/or collection of blood or other material.

2. Claims: 32-67

A system for blood processing.

3. Claims: 68, 100

Methods of controlling the transfer of blood.

INTERNATIONAL SEARCH REPORT

information on patent family members

nternational Application No PCT/CA 03/01838

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 02074365		26-09-2002	US	2003208105 A1	06-11-2003
			WO	02074365 A1	26-09-2002
			CA	2440910 A1	26-09-2002
			EP	1370308 A1	17-12-2003
WO 0119318	A	22-03-2001	AT	263540 T	15-04-2004
	• •		ΑÜ	7397500 A	17-04-2001
			WO	0119318 A1	22-03-2001
			CA	2381730 A1	22-03-2001
			DE	60009724 D1	13-05-2004
			EP	1214037 A1	19-06-2002
			JP	2003509124 T	11-03-2003
			NZ	517806 A	26-09-2003
			US	6736788 B1	18-05-2004
			US	2001054356 A1	27-12-2001
			US	2003208105 A1	06-11-2003
			ZA	200202085 A	13-06-2003
WO 02074362	A	26-09-2002	US	2001054356 A1	27-12-2001
	• • •		WO	02074362 A2	26-09-2002
			CA	2440912 A1	26-09-2002
			EP	1370307 A2	17-12-2003